



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246

# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project ID	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0041958	MES002-VC	1	1	Net 60	M17-4-H900-B0.750X3.500	17-4 SS H900 Bar 0.750" X 03.500" ; MATERIAL: 17-4 PH/ TYPE 630/ S17400 SS BAR SPEC'S AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564 H900 MIN YIELD TENSILE STRENGTH 170 KSI / MIN ULTIMATE TENSILE STRENGTH 190 KSI receive ft				13	12/21/2018	13		S140972	Stock	12/21/2018	\$ 149.95 / ft	10		\$1,986.84	Metaux Solutions
		2			MT-HRS-B-1.250X2.500	Hot Rolled Steel Bar 1.250" W X 2.500" H MATERIAL: AS PER ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018				6	12/12/2018	6		S140973	Stock	12/21/2018	\$ 25.35 / ft	10		\$152.10	Metaux Solutions
		3			M304TS0.750W.049	304 Sq Tube .75X.75X.049W MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft				600		600		S140974	Stock	12/21/2018	\$ 3.80 / ft	10		\$2,280.00	Metaux Solutions
										<b>Total:</b>		<b>619</b>								<b>\$3,244.92</b>	



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO041958**

**Supplier:** MES002-VC  
Metaux Solutions  
2625 boul Jacques-Cartier Est  
Longueuil  
QC  
J4N 1L7 Canada  
Phone: 800 558 8858  
Fax: 514 633 8044

**PO No:** PO041958

**PO Date:** 12/5/18

**Due Date:** 12/12/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
DEC 06 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pynt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	✓ M	M17-4-H900-B0.750X3.500		17-4 SS H900 Bar 0.750" X 03.500" : MATERIAL: 17-4 PH/ TYPE 630/ S17400 SS BAR SPEC'S AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564  H900 MIN YIELD TENSILE STRENGTH 170 KSI / MIN ULTIMATE TENSILE STRENGTH 190 KSI  receive ft	Firmed	-	12/12/18	12 ft	0 ft ✓ 13.25	12 ft	\$149.95/ft M 18/12/31	\$1,799.40
2	✓ M	MT-HRS-B-1.250X2.500		Hot Rolled Steel Bar 1.250" W X 2.500" H MATERIAL: AS PER ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firmed	-	12/12/18	6 ft	0 ft ✓ 6.54	6 ft	\$25.35/ft M 18/12/31	\$152.10



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

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# **PURCHASE ORDER** **PO041958**

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	✓ M	M304TS0.750W.049		304 Sq Tube .75X.75X.049W : MATERIAL: AISI 304/316 SEAMLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft	Firmed	-	12/12/18	600 ft	0 ft	600 ft	\$3.80/ft	\$2,280.00
											At 18/12/31	

**Grand Total: \$4,231.50**

## **Order Notes**

### **Procurement Quality Clauses**

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/5/18 12:45 PM dart.lavoie.chantal

## Shipping Order

21/12/2018

METAUX SOLUTIONS INC  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL, QUEBEC  
J4N 1L7 Tel.: 450 641-3330

Order : 140392  
Reference : 41958  
Bid : 30267  
Ship : PICK UP / PICK UP

Customer: 6323336

## Ship To

DART AEROSPACE LTD  
1270, ABERDEEN STREET  
HAWKESBURY, ONTARIO  
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF34312174	17-4PH COND. H900 .750 X 3.5 1 X 13.25' R/L *****	13.25	13.25	0
HF114212	HT: 430988 HRS FLA 1.250" X 2.50" 1 X 72" *****	6	6	0
SSQT34340494	HT: S21450 304 SQ TUBE .750 X .049 WALL 30 X 20' ***** HT: BK060596	600	600	0

LIVRE 27/12/18  
JP

Shipping : \_\_\_\_\_  
Package No : \_\_\_\_\_

Ref. : \_\_\_\_\_

Merchandise Received: \_\_\_\_\_

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date  
14-DEC-2018CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

46039-J

Invoice Number  
T387054

PART NUMBER/NUMÉRO DE PIÈCE

511729

OLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
ENDU À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	EXPÉDIÉ À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 17-4 HRAP BAR SOL ANN ASTM A564  
3/4 X 3-1/2 FLAT X 12' R/L  
HEAT: 430988 ITEM: 511729

Line Total: 118 LB

## Specifications:

AMS 5643 V	ASTM A564 T630 13	ASME SA564 T630 17*
SECTION II PT A	AISI 630	AMS 2303 F
AMS H 6875 B 10	ASTM A370 17	ASTM F899 (630) 12
ASTM A484 TABLE 5 18	EN 10204 3.1 04	ISO 10474 3.1 13
ASTM E112	AMS 2315	ASTM E340
AMS H 6875	AMS 2750	

## CHEMICAL ANALYSIS

C	SI	MN	CR	MO	CU	NI	CO
0.037	0.40	0.50	15.36	0.25	3.36	4.61	0.037
P	S	N	TA	NBTA	CB		
0.024	0.002	0.039	0.001	0.282	0.281		

RCPT: R578334

COUNTRY OF ORIGIN : ITALY

## MECHANICAL PROPERTIES

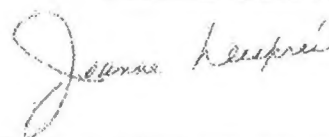
DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					343
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
DEV: H900 L	181.0	204.0	15.0	54.0	433

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
14-DEC-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number  
T387054

46039-J  
PART NUMBER/NUMÉRO DE PIÈCE  
511729

SOLD TO: METAUX SOLUTIONS INC.  
/ENDU À:

SHIP TO:  
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: 17-4 HRAP BAR SOL ANN ASTM A564  
3/4 X 3-1/2 FLAT X 12' R/L  
HEAT: 430988

ITEM: 511729

Line Total: 118 LB

GRAIN SIZE :5 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL  
THERMAL TREATMENT: OK  
MATERIAL SOLUTION ANNEALED 1905 DEG F FOR 1.5H,  
AIR COOLED TO BELOW 90 DEG F  
MACRO: OK  
MICRO1: OK  
AMS NO :2303  
SEVERITY :0.16  
FREQUENCY:0.32

## COMMENTS

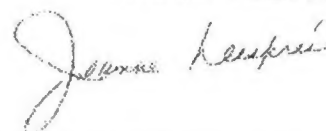
red. ratio= 153,2:1  
material is dfars compliant  
finished product is checked for radioactive contamination

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# METALLON INC.

650 BOUL. ARTHEUS SAUVÉ, ST-RICHOLDS, QC J0E 1A9

Tél: 450 491-1122

Télécopieur / Fax administration: 450-491-4492

Télécopieur / Fax production: 450-491-6454

## Certificat de Conformité Certificate of Compliance

ORDRE DE TRAVAIL order	CHARGEMENT load
332968	1

CLIENT / customer: 790

METALL SOLUTIONS

2626 BOUL. JACQUES CARTIER EST

LONGUEUIL

QC J4B 6J6

LIVRE À / delivered to:

METALL SOLUTIONS

2626 BOUL. JACQUES CARTIER EST

LONGUEUIL

QC J4B 6J6

COMMANDE DU CLIENT customer po	CLASSIFICATION PIÈCE part classification	MATÉRIEL material	MAÎTRE D'ŒUVRE on-site contractor	PROGRAMME
46040	N/A	17-0PH		

### SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

RIGIDITÉ / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	1	46 - 47 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
1	117	BARRES (1) BARRE 3.625" X 150.825" X .750"  1 NIL

### COMMENTAIRES / comments

APPROUVÉ par / Approved by:

DATE: 2018-12-20

Diana Pirho  
Chief in quality

METALL  
6



# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / TYPE 630 / S17400 SS BAR  
GRAIN MUST BE ALONG LENGTH OF BAR  
MINIMUM YIELD STRENGTH PER TABLE  
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564

PART NUMBER: M17-4-1 HHHH-B T.TTT X WW.WWW | WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)  
COND THICK WIDTH T.TTT SPECIFIES THE THICKNESS  
WWW SPECIFIES THE WIDTH

## MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS  
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE  
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

## EXAMPLES:

PART 0.250" X 4.000" BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI  
1.000" X 2.500" BAR H900 CONDITION  
0.500" X 3.250" BAR H1025 CONDITION  
0.750" X 2.500" BAR A CONDITION

PART NUMBER  
M17-4-B0-750X1.000  
M17-4-H900-B1.000X2.500  
M17-4-H1025-B0.500X3.250  
M17-4-CONDA-B0.750X2.500

RELEASED  
11/2017-10-31  
17-4 SS BAR

B	ADD MATERIAL CONDITION AND REFORMAT DRAWING	NO	17.09.14
A	NEW ISSUE	DS	02.04.18
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	DD		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-B			
TITLE 17-4 SS BAR			
REV. B			
SHEET 1 OF 1			
SCALE NTS			
COPYRIGHT © 2003 BY DART AEROSPACE LTD			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H900-B 0.750x3.500

PO / BATCH NO.: P0041958/5140972

DATE: 18/12/31

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 13.25 k

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 13.25 k

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS 5643
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Mt. 430988
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.  
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>18/12/31</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PO Box 2119  
Ashland, Kentucky 41105-2119

**Email:** [www.kentuckyelectricsteel.com](http://www.kentuckyelectricsteel.com)  
**Phone:** (606) 929-1200 **Toll Free:** (800) 333-3012  
**Fax:** (606) 929-1219

PAGE 1

We hereby certify that these Chemical and/or Test results are correct as contained in the records of Kentucky Electric Steel, LLC.

By William L. Compton, Q.C. Manager

**SOLD TO:**

Invoice No.

Date: 4/20/2010

SHIPPER SEO 46

16:20:22

METRIC: THICKNESS 32.0000MM WIDTH 64.0000MM REDUCTION RATIO 6.480

HEAT NO.	CHEMICAL ANALYSIS														Ti	D	CA	N
	C	Fe	P	S	Si	Cu	Ni	Cr	Mo	Mn	Al	V	Nb	As				
S21450	.16	1.04	.008	.020	.28	.19	.09	.08	.02	.010	.000	.038	.000					
HEAT NO. S21450	BNH	DNH	BNH	DECRB				C L E A N L I N E S S *A* *B* *C* *D*										

HEAT NO.	S9700		S1400		40	S7400		79500		41								
S21450																		

HEAT NO.	END QUENCH HARDENABILITY TEST RESULTS - DISTANCE IN INCHES														CHARPITZ			

Prova  
a  
1 1/4 x 2  
Juni

114 x 210  
2

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

HOT ROLLED STEEL BAR  
ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018  
MT-HRS-B-[W.WWW]x[H.HHH]  
WHERE W.WWW IS BAR WIDTH IN INCHES  
WHERE H.HHH IS BAR THICKNESS IN INCHES  
MT-HRS-B-2.000x0.250  
TOLERANCES PER MANUFACTURER SPECIFICATIONS



REV	DESCRIPTION	ECN #	DATE	BY	APPROVED
B	REMOVED LENGTH DIMENSION	17-875	20/09/2017	SAC	WM

<b>DART</b> AEROSPACE		HOT ROLLED STEEL BAR	
DRAWN BY: SAC 07/09/2017		MT-HRS-B	
CHECKED: SAC 09/26/2017		B	
APPROVED: [Signature] 09/27/2017		1. DIMENSIONS ARE IN INCHES 2. UNLESS OTHERWISE SPECIFIED 3. ASSEY 11/14/2009	
DATE: 7/8/09/2017		1. DIMENSIONS ARE IN INCHES 2. UNLESS OTHERWISE SPECIFIED 3. ASSEY 11/14/2009	
SCALE: NTS		WEIGHT: N/A	
SHEET 1 OF 1		COPYRIGHT © 2017 BY DART AEROSPACE LTD	

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-HRS-B-1.250x2.500  
 DATE: 18/12/31

PO / BATCH NO.: P0041958/S140973

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 6.4  
 QUANTITY INSPECTED: 6.4  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"  
 THICKNESS RECEIVED: 1.250"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	44W
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	MT S21450
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.  
 RECORD RESULTS BELOW

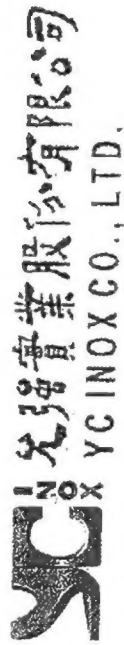
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAG 61</u> DATE: <u>18/12/31</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

002336



# INSPECTION CERTIFICATE

EN 10204-3.1:2004

No.270,Sec.4,Jungshan Rd.,Shijou Shiang,  
Chang-Hwa,Taiwan,R.O.C  
http://www.ycinox.com  
TEL : +886-4-8899666 FAX : +886-4-8899770



Customer	STAINLESS STEEL WELDED TUBE		Customer No.	FCA027	Certificate No.	180718P0113	
Specification	ASTM A554-16		Commercial Invoice No.	J18070022	Date of Issue	2018/07/18	
Steel Grade	304		PO No.	P010185	Order No.	EP18050236-1	
	Finish		MILL	P.I.No.	PI 1805-151	Weight No.	C18070248

Item No.	Heat No.	Product Description	Quantity Pcs	Chemical Composition(%)											Tension Test				*01
				C	Si	Mn	P	S	Ni	Cr	0.2% Y.S.	T.S.	E.L.	%	HRB				
1	TBK060596	3/4" (19mm) x 3/4" (19mm) x 0.049" (1.25mm) x 20FT	200	54	42	106	33	2	811	1814	294	674	58	87					
2	TBK060834	1" (25.4mm) x 1" (25.4mm) x 0.12" (3.05mm) x 20FT	100	54	45	107	31	2	804	1821	308	672	53	85					
3	TBK062680	1 1/4" (31.8mm) x 1 1/4" (31.8mm) x 0.12" (3.05mm) x 20FT	25	44	45	82	33	2	809	1801	277	638	55	83					
4	TBK053580	1 1/2" (38.1mm) x 1 1/2" (38.1mm) x 0.12" (3.05mm) x 20FT	42	54	45	107	31	2	804	1821	308	672	53	85					
5	TBK071170	1 1/2" (38.1mm) x 1 1/2" (38.1mm) x 0.12" (3.05mm) x 20FT	83	24	52	163	29	1	800	1810	292	648	55	86					
6	TBK061191	2" (50.8mm) x 2" (50.8mm) x 0.12" (3.05mm) x 20FT	30	54	45	107	31	2	804	1821	308	672	53	85					
7	TBK061209	2" (50.8mm) x 2" (50.8mm) x 0.12" (3.05mm) x 20FT	90	44	52	86	38	3	807	1831	268	627	56	81					
8	TBK062452	2" (50.8mm) x 2" (50.8mm) x 0.12" (3.05mm) x 20FT	30	44	45	82	33	2	809	1801	277	638	55	83					
9	TBK051018	2" (50.8mm) x 2" (50.8mm) x 0.180" (4.57mm) x 20FT	20	22	38	139	20	3	803	1821	299	640	55	83					
10	TBK051809	2" (50.8mm) x 2" (50.8mm) x 0.180" (4.57mm) x 20FT	30	20	40	140	34	1	804	1814	308	643	54	84					
11	TBK060322	2" (50.8mm) x 2" (50.8mm) x 0.250" (6.35mm) x 20FT	15	44	48	87	31	4	813	1810	297	612	57	84					
12	TBK041093	2 1/2" (63.5mm) x 2 1/2" (63.5mm) x 0.180" (4.57mm) x 20FT	10	44	48	87	31	4	813	1810	297	612	57	84					
13	TBK041092	2 1/2" (63.5mm) x 2 1/2" (63.5mm) x 0.250" (6.35mm) x 20FT	10	22	40	142	29	3	808	1813	322	649	54	88					
14	TBK020282	3" (76.2mm) x 3" (76.2mm) x 0.12" (3.05mm) x 20FT	10	53	55	87	33	3	804	1808	278	648	54	86					
15	TBK070341	3" (76.2mm) x 3" (76.2mm) x 0.12" (3.05mm) x 20FT	15	23	40	139	28	2	811	1820	283	632	54	83					
16	TBK051779	4" (101.6mm) x 4" (101.6mm) x 0.12" (3.05mm) x 20FT	20	20	40	140	34	1	804	1814	308	643	54	84					
17	TBK040233	4" (101.6mm) x 4" (101.6mm) x 0.12" (3.05mm) x 20FT	6	47	42	90	35	6	812	1819	270	617	56	80					
18	TBK061999	4" (101.6mm) x 4" (101.6mm) x 0.12" (3.05mm) x 20FT	9	44	52	86	38	3	807	1831	268	627	56	81					
19		TOTAL:	760																

Surveyor By	N/A		Visual Inspection(Surface) and Dimension Check : OK	1. ISO 9001:2015 (No.01 100 056299) 2. PED / AD2000 (No.01 202 TWW/Q-05 0105) 3. ISO 14001:2004 (No.01 104 822 096385) 4. OHSAS 18001:2007 (No.01 113 822 096385)	1MPa=1N/mm <sup>2</sup> =10bar=145psi=10.2kgf/cm <sup>2</sup> Manager of Quality Assurance Department
			Jay Chen		

PURCHASE MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBING

FINISH: D ASTM A554 MILL FINISH  
OR ASTM A289 MILL FINISH

PART NUMBER: M304TS | A.AAA W | TTT  
| WIDTH | WALL |

PART NUMBER: EG. 0.75" X 0.75" X 0.049 WALL = M304TS0.750W.049

WHERE: A.AAA = WIDTH IN INCHES  
TTT = WALL THICKNESS IN INCHES

RELEASED  
2014-05-26

D	"SEAMLESS" REMOVED FROM PURCHASE MATERIAL SPECIFICATION (SEE NCR14-3818)			DB	14.05.20
C	"SEAMLESS" ADDED TO PURCHASE MATERIAL. ASTM A289 ADDED TO FINISH. REASON: SPEC ADDED FOR 1/2" TUBING			AJS	09.10.16
B	DRAWING MOVED TO "B" SIZE BORDER FINISH ADDED (SEE NCR 08-046 FOR DETAILS).			AJS	08.08.28
A	NEW ISSUE			DS	01.08.08
REV.	DESCRIPTION			BY	DATE
DESIGN	DS	DART AEROSPACE LTD			
DRAWN	DB	HAWKESBURY, ONTARIO, CANADA			
CHECKED	AP	DRAWING NO. M304TS			
MFG. APPR.	AP	SHEET 1 OF 1			
APPROVED	AP	TITLE			
DE APPR.	AP	304/316 SQUARE TUBING			
DATE	14.05.20	SCALE			
					NONE

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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304T50.750w.049  
 DATE: 10/12/31

PO / BATCH NO.: P0041958 / S140974

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 600.54  
 QUANTITY INSPECTED: 600.54  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"  
 THICKNESS RECEIVED: 0.750"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A554
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MM: TBK060596
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.  
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>10/12/31</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in